

Title (en)
MICROWAVE INTEGRATED CIRCUIT MIXER

Publication
EP 0068870 B1 19860917 (EN)

Application
EP 82303372 A 19820628

Priority
• JP 10283081 A 19810630
• JP 10284281 A 19810630

Abstract (en)
[origin: US4450584A] In a mixer using a planar circuit such as a strip line or a microstrip line etc., an IF signal interruption circuit which passes an RF signal but exhibits an open-circuit impedance against an IF signal is provided in shunt with a main line on which the RF signal propagates toward a mixer diode, and a low-pass filter is connected in the vicinity of the IF signal interruption circuit in order to short-circuit a mount point of the diode for the IF signal by high frequency short-circuiting technique wherein an open-ended quarter-wavelength transmission line or a short-circuited half-wavelength transmission line is used, whereby low noise performance can be obtained over a wide frequency band even under such an operating condition that the IF signal is in the GHz band.

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H03D 9/06

IPC 8 full level
H03D 9/06 (2006.01)

CPC (source: EP US)
H03D 9/0633 (2013.01 - EP US); **H03D 2200/0037** (2013.01 - EP US)

Cited by
CN111342180A; EP0081818A3; CN103546132A; US4754229A

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EP 0068870 A2 19830105; EP 0068870 A3 19831102; EP 0068870 B1 19860917; DE 3273330 D1 19861023; US 4450584 A 19840522

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